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JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **05247300 A**

(43) Date of publication of application: **24.09.1993**

(51) Int. Cl **C08L 27/06**

C08K 3/20, C08K 3/22, C08K 3/26, C08K 5/07, C08K 5/09

(21) Application number: **04051538**

(22) Date of filing: **10.03.1992**

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(54) VINYL CHLORIDE RESIN COMPOSITION

(57) Abstract:

PURPOSE: To prepare the title compsn. which does not sweat, has a low toxicity and, moreover, is excellent in electrical insulating properties and thermal stability.

CONSTITUTION: The title compsn. is prepd. by compounding a vinyl chloride resin with magnesium oxide, magnesium carbonate and/or magnesium hydrox-

ide, calcium oxide and/or calcium hydroxide, a zinc salt of an org. acid (e.g. zinc benzoate, zinc p-tert-butylbenzoate, zinc octanoate, zinc laurate, or zinc stearate), and a β -diketone compd. (e.g. dibenzoylmethane or distearoylmethane). The compsn. does not sweat is resistant to thermal discoloration and stable for a considerably long time even at a temp. as high as 200°C, and, moreover, has excellent electrical insulating properties.

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JP 93247300

6/5/1 (Item 1 from file: 351)

DIALOG(R)File 351:Derwent WPI

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0006530664

WPI ACC NO: 1993-339875/ 19 9343

XRAM Acc No: C1993-150806

PVC type resin compsn. used as plasticiser - comprises e.g. PVC resin, magnesium oxide, calcium oxide and/or hydroxide, zinc salt of organic acid and beta diketone

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Patent Family (1 patents, 1 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
JP 5247300	A	19930924	JP 199251538	A	19920310	199343 B

Priority Applications (no., kind, date): JP 199251538 A 19920310

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
JP 5247300	A	JA	11	0		

Alerting Abstract JP A

PVC type resin compsn. comprises (a) PVC type resin, (b) at least one cpd. selected from MgO, Mg(OH)₂ and MgCO₃, and (c) CaO and/or Ca(OH)₂, (d) Zn salt of organic acid, and e) beta-diketone.

(a) is pref. PVC, polyvinylidene chloride, chlorinated polyethylene, chlorinated polypropylene, chlorinated rubber, vinylchloride-ethylene type copolymer, vinylchloride-styrene type copolymer resin. (b) is pref. MgO. (d) is Zn salt of monocarboxylic acid e.g. acetic acid, butyric acid, caprylic acid, undecanic acid, benzoic acid, soybean oil aliphatic acid. (e) is pref. dibenzoyl methane or stearyl methane.

USE/ADVANTAGE - The compsn. shows good electrical insulation, high heat stability and is not harmful. When using a plasticiser, the compsn. does not sweat. The compsn. does not cause yellowing even when keeping it at 200 deg.C for fairly long time.

USE/ADVANTAGE - In an example, formulation= 100 pts. PVC, 0.3 pts. MgO, 1.5 pts CaO, 2.0 pts Zn stearate and 0.2 pts dibenzoyl methane. The compsn. is shaped into plates having a thickness of 1.2 mm. The plates are pressed at 200 deg.C for 50 min. The tested plates are white colour for 10 min. after start of pressing and turn brown after 50 min. from start of pressing.


Title Terms/Index Terms/Additional Words: PVC; TYPE; RESIN; COMPOSITION; PLASTICISED; COMPRISE; MAGNESIUM; OXIDE; CALCIUM; HYDROXIDE; ZINC; SALT; ORGANIC; ACID; BETA; DI; KETONE

Class Codes

International Classification (Main): C08L-027/06

(Additional/Secondary): C08K-003/20, C08K-003/22, C08K-003/26, C08K-005/07, C08K-005/09

File Segment: CPI



DWPI Class: A14; A18; A60; E19

Manual Codes (CPI/A-M): A04-E02B; A08-M10; E05-L03C; E10-F02; E34-B;
E34-D01

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